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PN - EP0599780 A 19940601

PD - 1994-06-01

PR - CH19920003622 19921126

OPD - 1992-11-26

TI - Connector for optical light guide.

AB - The locking device for locking the plug part (1) in the socket part (3) consists of radially resilient detent pawls (7) which are firmly connected to the pin mounting (5). A tapered ring (9) is arranged on the inner wall of the plug housing (6) which can be axially displaced with respect to the pin mounting, by means of which tapered ring (9) the detent pawls can be spread. In this method of construction all elements of the locking device are accommodated inside the plug part in a very limited space, while only a circumferential outer groove (8) is required on the socket part.

&lt;IMAGE&gt;

IN - DE MARCHI SILVERIO (CH)

PA - DIAMOND SA (CH)

EC - G02B6/38D2K4 (N); G02B6/38D14 (N); H01R13/635 (N)

IC - G02B6/38 ; H01R13/633 ; H01R13/627

CT - US5101463 A [AD]; GB1587062 A [AD]; US4268115 A [AD];  
US4747656 A [A]; DE8908517U U [AD]

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TI - Optical fibre jack-plug connector - has plug element with relatively sliding housing releasing locking noses to allow connector separation

PR - CH19920003622 19921126

PN - EP0599780 A1 19940601 DW199421 G02B6/38 Ger 008pp

- CH685267 A5 19950515 DW199524 G02B6/38 000pp

- EP0599780 B1 19960605 DW199627 G02B6/38 Ger 009pp

- DE59302817G G 19960711 DW199633 G02B6/38 000pp

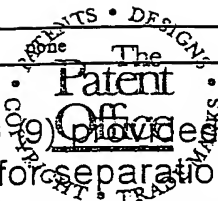
PA - (DIAM-N) DIAMOND SA

IC - G02B6/38 ;H01R13/627 ;H01R13/633

IN - DEMARCHI S; DE MARCHI S

AB - EP-599780 The connector has a plug element (1) with at least one pin (2) received in a respective socket sleeve (4) of a socket element (3) and retained via at least 2 spring tongues (10) with radial locking noses (7), integral with the pin holder (5).

- The plug element has a housing (6) displaced axially relative to the



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holder, with a wedge ring (9) provided by its inside wall used to release the locking noses, for separation of the connector.

- ADVANTAGE - All elements of retaining mechanism are contained within connector within narrow space.

- (Dwg.3/7)

EPAB - EP-599780 Push/pull plug connector for optical fibres, with a plug portion (1) that possesses at least one plug ferrule (2) and a ferrule holder (5), and with a sleeve portion (3) that possesses at least one sleeve (4) for accommodation of the plug ferrule, as well as with a snap-in device that engages with a circumferential outer groove (8) on the sleeve portion for the tension resistant holding of the plug ferrule in the sleeve, wherein the plug portion possesses a plug housing (6) that is axially displaceable in relation the ferrule holder and wherein the snap-in device is releasable by means of a tension force applied to the plug housing, characterised in that the snap-in device possesses at least four radially sprung tongues (10) extending parallel to the plug ferrule and connected to the ferrule holder, on the ends of which tongues locking catches (7) are arranged that can be splayed outwards, in the longitudinal direction the locking catches are wedged-shaped, and can be engaged, tension resistant, in the outer groove, in cross-section, the tongues and the locking catches form annular sectors, and a tapered ring for splaying the locking catches is arranged on the inside wall of the plug housing, the tapered ring tapering towards the side oriented away from the facing side of the plug ferrule and engaging beneath the wedge tips of the locking catches.(Dwg.1/7)

OPD - 1992-11-26

CT -

DE8908517;GB1587062;US4268115;US4747656;US5101463;DE8716176;EP0153249

DS - CH DE FR GB IT LI NL

AN - 1994-170014 [33]